

**STUA250 SERIES**
**250W U-Bracket Power Supply for I.T. Equipment**


- Wide Input Voltage 100 to 240 VAC, 47 to 63Hz,
- Output Voltage Available 12, 24, 48VDC
- Internal EMI filter,
- Active Power Factor Correction,
- Zero Voltage Switching (ZVS) & High Efficiency Up to 93%,
- Dimensions: 4.18" x 6." x 1.54"
- Input Surge Current, Over Voltage and Over Load Protection
- Single Output, Class I

**3 Year Warranty**
**Approvals:**
**Single Output**

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
STUA250-S05	12 VDC	18.33 A	5%	220W
STUA250-S08	24 VDC	10.42 A	3%	250W
STUA250-S11	48 VDC	5.21 A	2%	250W

**Electrical Characteristics**

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction	Io=Full load, Vin=240AC	0.95		1	
Output Power Range	See Rating Chart			250	W
Low Line Input Current	Full load, Vin=100VAC		3.3		A
High Line Input Current	Full load, Vin=240VAC		1.3		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			45	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			108	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	86		91	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	2		5	%
Over Voltage Protection	Over Voltage Protection	112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			20	ms
Start Up Time	Full Load, Vin=100~240VAC			3	s
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary			4242	VDC
Dielectric Withstanding Voltage(P-G)	Primary to PE			2121	VDC
EMC Emission	Compliance to EN55022(CISPR22)			B	Class

### Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 50 to 50% load at 70	0		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	KV
Mean Time Between Failure	Operation Temperature at 25 , Calculated per MIL-HDBK-217F	100K			h
Operating Altitude (Elevation)	All Condition			2000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

### Mechanical Diagram & Technical Chart

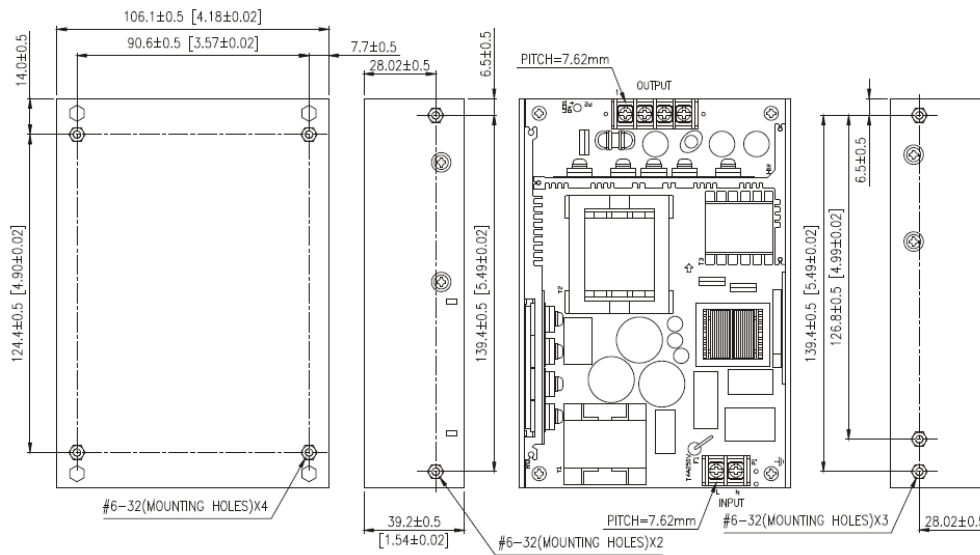
#### PIN CHART

MODEL	PIN	1	2	3	4
STUA250-SXX (4PIN)		RTN	RTN	OUT	OUT

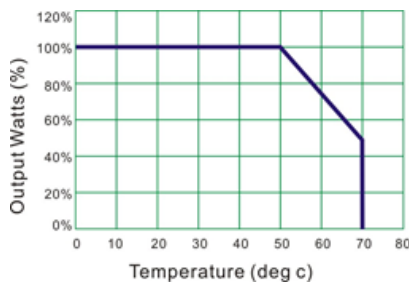
MODEL	PIN	1	2	3	4	5	6
STUA250-SXX (6PIN)		RTN	RTN	RTN	OUT	OUT	OUT

#### Note:

- Dimensions are shown in mm.
- Weight: 790gs approx.
- Input connector mates with INKLE#DT-2G-B01W-02P and DINKLE#ESK750V-02P
- Output connector mates with DINKLE#DT-2G-B01W-(04P or 06P) and DINKLE#ESK750V-(04P or 06P)



#### DERATING CHART



- Operating Temperature: 0 to 70°C
- Derate linearly from 100% load at 50°C to 50% load at 70°C